

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A digital broadcasting receiving apparatus for receiving a digital broadcasting signal, comprising:
 - a tuner unit configured to extract ~~a signal~~ of a ~~desired~~ physical channel from an input signal;
 - a first judging unit configured to judge whether or not the ~~signal extracted by the tuner unit~~ physical channel includes a digital broadcasting signal;
 - a second judging unit configured to judge whether or not Virtual Channel Table ("VCT") information ~~included~~ in the digital broadcasting signal can be extracted, when it is judged in the first judging unit that the ~~signal extracted by the tuner unit~~ physical channel includes the digital broadcasting signal;
 - a program information obtaining unit configured to extract VCT information ~~included~~ in the digital broadcasting signal ~~from the signal extracted by the tuner unit and processed by the first judging unit~~, when it is judged in ~~the first judging unit that the signal extracted by the tuner unit includes the digital broadcasting signal and~~ the second judging unit that the VCT information ~~included~~ in the digital broadcasting signal can be extracted; and
 - a memory unit configured to store ~~a judgment result in the first judging unit and the VCT information of the digital broadcasting signal obtained by the program information obtaining unit~~ the following information:
 - the flag which indicates that the physical channel includes a digital broadcasting signal and the program information based on VCT information in the case that the physical channel is judged in the first judging unit to include a digital broadcasting signal and which is judged in

the second judging unit that the VCT information in the digital broadcasting signal can be extracted; and

the flag which indicates that the physical channel includes a digital broadcasting signal and that the VCT information in the digital broadcasting signal cannot be extracted in the case that the physical channel is judged in the first judging unit to include a digital broadcasting signal and which is judged in the second judging unit that the VCT information in the digital broadcasting signal cannot be extracted.

2.- 3. (Canceled)

4. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, wherein the tuner unit is configured to extract signals of a plurality of physical channels which are classified into a first classification and a second classification:

a physical channel being in the first classification if the signal of the physical channel is judged in the first judging unit to include a digital broadcasting signal and which is judged in the second judging unit that the VCT information included in the digital broadcasting signal can be extracted therefrom;

a physical channel being in the second classification if the signal of the physical channel is judged in the first judging unit to include a digital broadcasting signal and which is judged in the second judging unit that the VCT information included in the digital broadcasting signal cannot be extracted therefrom; and

wherein the first and second classifications of physical channels are stored in the memory unit.

5. (Original) The digital broadcasting receiving apparatus as set forth in Claim 4, wherein the tuner unit is configured to extract signals of a plurality of physical channels which are classified into the first classification, the second classification, and a third classification,

wherein a physical channel is in the third classification if the signal of the physical channel is judged in the first judging unit not to include a digital broadcasting signal; and

wherein the third classification of physical channel is stored in the memory unit.

6. (Original) The digital broadcasting receiving apparatus as set forth in Claim 4, further comprising an output unit configured to output such a display signal that a channel which is stored in the memory unit and belongs to the first classification and a channel which is stored in the memory unit and belongs to the second classification are separately displayed on a display screen as channels which can be selected, respectively.

7. (Original) The digital broadcasting receiving apparatus as set forth in Claim 6, wherein the output unit comprises a television.

8. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, further comprising an error correction unit configured to carry out an error correction of the input signal, and wherein the second judging unit judges whether or not the VCT information included in the digital broadcasting signal can be extracted based on a bit error rate which is detected in the error correction unit.

9. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 8, wherein the second judging unit judges whether or not the VCT information included in the digital broadcasting signal can be extracted based on a result of detecting the bit error rate a plurality of times in the error correction unit.

10. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, further comprising an error correction unit configured to carry out an error correction of the input signal, and wherein the second judging unit judges whether or not the VCT information included in the digital broadcasting signal can be extracted based on synchronization establishment of digital data which is outputted from the error correction unit.

11. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, wherein when a physical channel selected from the memory unit has a signal which was judged in the first judging unit to include the digital broadcasting signal and which was judged in the second judging unit to contain VCT information that could not be extracted, the program information obtaining unit is configured to newly obtain the VCT information which corresponds to the selected physical channel.

12. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 11, wherein when the VCT information which is included in the digital broadcasting signal is newly detected, the VCT information obtained is stored in the memory unit.

13. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, further comprising a display device for displaying image information which is included in the signal of the physical channel that is extracted in the tuner unit, and information representing results judged in the first judging unit and the second judging unit.

14. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, wherein the program information obtaining unit is disposed downstream of the first judging in a signal processing path for the signal extracted by the tuner unit to extract the VCT information from the signal which has been processed by the first judging unit in the same signal processing path.

15. (Original) The digital broadcasting receiving apparatus as set forth in Claim 1, further comprising a demodulating unit configured to demodulate the signal extracted by the tuner unit from the input signal, and wherein the first judging unit judges that the input signal includes the digital broadcasting signal when a predetermined synchronization signal is detected in the signal being demodulated in the demodulating unit.

16. (Original) The digital broadcasting receiving apparatus as set forth in Claim 15, wherein the predetermined synchronization signal is a segment synchronization signal which is detected by a segment synchronous detecting unit included in the demodulating unit, or a field synchronization signal which is detected by a field synchronous detecting unit included in the demodulating unit.

17. (Original) The digital broadcasting receiving apparatus as set forth in Claim 1, further comprising an amplifying unit configured to amplify the signal which is inputted, and wherein the first judging unit judges whether or not the digital broadcasting signal is included based on an AGC voltage in the amplifying unit.

18. (Previously Presented) The digital broadcasting receiving apparatus as set forth in Claim 1, wherein the VCT information which is included in the digital broadcasting signal includes any information of virtual channel number, modulation system, channel TS-ID, and program number.

19. (Currently Amended) A receiving apparatus for receiving a broadcasting signal comprising:

a tuner unit configured to extract ~~a signal of a desired frequency~~ a physical channel from a broadcasting signal ~~which includes a plurality of frequencies and one or more programs at each of the plurality of frequencies;~~

a program information obtaining unit configured to obtain program information ~~of the physical channel which identifies the program~~ included in the broadcasting signal ~~that is extracted in the tuner unit;~~ and

an output unit configured to output a signal representing physical channel information ~~which can be selected for broadcasting,~~

wherein the channel information includes[[,]];

first information which represents ~~that, without identifying the program included in the frequency extracted, the frequency is available;~~ the

channel number based on the physical channel and an inability to scan in the case that the physical channel in the digital broadcasting signal can be extracted by the tuner unit and the program information of the physical channel cannot be obtained by the program information obtaining unit; and

second information which represents ~~that, by identifying the program included in the frequency on the basis of the program information obtained in the program information obtaining unit, the frequency is available, and~~ the channel number based on the physical channel and the ability and an ability to scan in the case that the physical channel in the digital broadcasting signal can be extracted by the tuner unit and the program information of the physical channel can be obtained by the program information obtaining unit;

~~wherein the first information and the second information are information corresponding to different frequencies of the broadcasting signal, respectively.~~

20. (Original) The receiving apparatus as set forth in Claim 19, wherein, the first information comprises information which represents that the physical channel is available, if the physical channel including a digital broadcasting signal can be extracted in the tuner unit and the program information of the physical channel cannot be obtained by the program information obtaining unit, and

the second information comprises information which represents that one or more programs included in the physical channel are available, if the physical channel including a digital broadcasting signal can be extracted in the tuner unit and the program information of the physical channel can be obtained by the program information obtaining unit.

21. (Original) The receiving apparatus as set forth in Claim 19, further comprising a memory unit configured to store the channel information, wherein when a physical channel selected from the memory unit includes information representing that, without identifying the program included in the physical channel, the physical channel is available, the

program information obtaining unit newly obtains the program information included in the physical channel, and the output unit outputs images of one or more programs included in the physical channel based on the program information obtained.

22. (Currently Amended) A digital broadcasting receiving method in which channel information of a digital broadcasting is scanned by channel scan and stored, comprising:

selecting a physical channel from a signal received;

first judging whether or not the selected physical channel includes a digital broadcasting signal;

second judging whether or not VCT information included in the digital broadcasting signal can be ~~obtained~~ extracted, in case that it is judged that the selected physical channel includes the digital broadcasting signal ~~is included~~; and

~~storing in a memory unit that the physical channel includes the digital broadcasting signal, when it is judged that the selected physical channel includes the digital broadcasting signal but the VCT information included in the digital broadcasting signal cannot be obtained~~

storing the following information:

the flag which indicates that the selected physical channel includes a digital broadcasting signal and the program information based on VCT information in the case that the selected physical channel is judged in the first judging to include a digital broadcasting signal and which is judged in the second judging that the VCT information in the digital broadcasting signal can be extracted; and

the flag which indicates that the selected physical channel includes a digital broadcasting signal and that the VCT information in the digital broadcasting signal cannot be extracted in the case that the selected physical channel is judged in the first judging to include a digital broadcasting signal and which is judged in the second judging that the VCT information in the digital broadcasting signal cannot be extracted.

23. (Previously Presented) The digital broadcasting receiving method as set forth in Claim 22, further comprising:

displaying that the physical channel includes the digital broadcasting signal, when it is judged that the selected physical channel includes the digital broadcasting signal but the VCT information included in the digital broadcasting signal cannot be obtained; and

displaying channel information of the physical channel, when it is judged that the selected physical channel includes the digital broadcasting signal and the VCT information included in the digital broadcasting signal can be obtained.

24. (Previously Presented) The digital broadcasting receiving method as set forth in Claim 22, further comprising, when a physical channel selected from the memory unit includes a signal which was judged to include the digital broadcasting signal but the digital broadcasting signal was judged to contain VCT information which could not be extracted:

newly obtaining the VCT information of the physical channel,

storing in the memory unit the newly obtained VCT information of the channel;

and

outputting a program included in the physical channel, based on the newly obtained VCT information of the physical channel.

25. (Canceled)

26. (Canceled)

27. (Previously Presented) The digital broadcasting receiving apparatus as set forth in claim 1, wherein the memory unit stores the judgment result regardless of the result of the second judging unit.